

ANNEX B

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COMMENTS:

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1. A large part of the coverage of the [REDACTED] bureaus was tuned at [REDACTED] using control facilities located in the Key Building.

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2. The Collins remote tuning system is basically a practical one but some improvements, primarily in the computer's programming, are necessary to adapt the system to the needs of [REDACTED]. The system is suitable for use when a technician is available at the receiving site but its performance so far does not justify the assumption that it can be used in unmanned operations unless a 100% backup arrangement is provided. Since future modifications are likely, acceptance of the system should be deferred until there has been an opportunity to test it in its final configuration.

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3. The [REDACTED] international service and (excepting [REDACTED] EFE) all the radioteletype services now monitored at the [REDACTED] bureaus can be printed with equal or better reception at ECB. To these might be added any high-powered shortwave broadcasts from [REDACTED] that emerge in the future. The rest of the voice coverage from [REDACTED] may as well be left where it is.

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4. Recommended programming changes:

a. I recommend several changes to the programming of the Collins Remote tuning system.

b. Because of the difficulties involved in tuning radio-teletype under the present system, there should be a function which automatically offsets the tuning of the receiver to provide the correct heterodyne.

c. To make the receiver more effective for cruising, I propose the incorporation of a positive delta-frequency function and a negative delta-frequency function to allow small adjustments to previously tuned frequencies.

d. Presumably the largest single category of use to which the system will be put is the tuning of voice programs. In most cases it is necessary only to specify the frequency, bandpass, antenna, receiver, and line and/or recorder. I propose that all of these instructions be put into a single operational code.

e. It would be useful if the present status report would include also the antenna in use.

f. Consideration might be given to redesigning the operational codes so that those used most commonly are the simplest and those which would tend to impair the usefulness of the system when misapplied would be made more complex.